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| APPLICATION NO. | FII | LING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|-------------------------|--------------------------------|------------|----------------------|---------------------|------------------|--|--|
| 10/699,410 | 410 10/31/2003 | | Seth A. Miller | TI-34613 | 2092 | | |
| 23494 | 7590 | 06/21/2005 | | EXAM | INER | | |
| | TEXAS INSTRUMENTS INCORPORATED | | | | PHAN, JAMES | | |
| P O BOX 6: DALLAS, 7 | - | | | ART UNIT | PAPER NUMBER | | |
| , | | | | 2872 | | | |
| | | | | | | | |

DATE MAILED: 06/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) |
|--|--|--|--|
| | | 10/699,410 | MILLER ET AL. |
| | Office Action Summary | Examiner | Art Unit |
| | | James Phan | 2872 |
| | The MAILING DATE of this communication app | pears on the cover sheet | with the correspondence address |
| | or Reply | | |
| THE - External control | MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply opened to period for reply is specified above, the maximum statutory period ture to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may y within the statutory minimum of t will apply and will expire SIX (6) M a, cause the application to become | thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). |
| Status | | | |
| 1) | Responsive to communication(s) filed on | <u>_</u> . | . • |
| 2a) | This action is FINAL . 2b) ☐ This | action is non-final. | |
| 3)🖂 | Since this application is in condition for allowa | | |
| | closed in accordance with the practice under E | Ex parte Quayle, 1935 C | C.D. 11, 453 O.G. 213. |
| Disposit | tion of Claims | | |
| 4)🛛 | Claim(s) 1-39 is/are pending in the application | | |
| | 4a) Of the above claim(s) is/are withdra | wn from consideration. | |
| · · | Claim(s) <u>1-23,28-33,38 and 39</u> is/are allowed. | • | |
| · | Claim(s) is/are rejected. | | |
| | Claim(s) 24-27 and 34-37 is/are objected to. | u alaatian namuinamant | |
| 8)[_] | Claim(s) are subject to restriction and/c | or election requirement. | |
| Applicat | tion Papers | | • |
| , — | The specification is objected to by the Examine | | |
| 10)⊠ | The drawing(s) filed on 22 March 2004 is/are: | | |
| | Applicant may not request that any objection to the | | |
| 11)[| Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1. | | |
| · | under 35 U.S.C. § 119 | | |
| • | Acknowledgment is made of a claim for foreign | nriority under 35 H S C | \$ 8.119(a)_(d) or (f) |
| - |) Acknowledgment is made of a claim for foreign) All b) Some * c) None of: | i priority under 33 0.3.C | 7. g 119(a)-(u) 01 (1). |
| a | 1. Certified copies of the priority documen | ts have been received. | |
| | 2. Certified copies of the priority document | | n Application No |
| | | | |
| | 3. Copies of the certified copies of the price | ority documents have be | en received in this National Stage |
| | 3. Copies of the certified copies of the price application from the International Burea | · | en received in this National Stage |

Attachment(s)

| 1) | \boxtimes | Notice of | Refer | ences | Cited | (P` | TO-8 | 92) |
|----|-------------|-----------|-------|-------|-------|-----|------|-----|
|----|-------------|-----------|-------|-------|-------|-----|------|-----|

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/26/05.

| 4) | Interview Summary (PTO-413) |
|------|---|
| | Paper No(s)/Mail Date |
| 5) [| Notice of Informal Patent Application (PTO-152) |
| 6) [| Other: |

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 1/26/04 has been considered by the examiner.

Additional prior Art Cited

Hornbeck discloses a spatial light modulator and a method of making the same; Meier et al discloses a spring-ring micromechanical device; and Makino et al discloses an optical switching apparatus having a substrate provided between an insulation layer and an anti-reflection layer.

Claim Objections

Claims 24-27 and 34-37 are objected to because of the following informalities: the arrangements of the antireflective coating (claims 24 and 34) and the insulator/insulation layer (claims 25-27 and 35-37) are not consistent with their parent claims. In claim 24, line 2, "substrate" should be changed to --reflective member--; in claim 34, line 2, "substrate" should be changed to --reflective layer--; and in claims 25-27 and 35-37, line 2, "substrate" should be changed to --antireflective coating--.

Appropriate correction is required.

Allowable Subject Matter

Claims 1-39 are allowed.

The following is an examiner's statement of reasons for allowance: none of the cited references teaches or fairly suggests (1) a method of forming a coating having the steps of "applying an insulator layer to said antireflective layer; and applying a

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lubrication layer to said insulator layer." (claim 1, lines 4-5) in combination with the remaining steps of the claim; and (2) a device/system having an insulator/insulation layer supported on the antireflective layer, and a lubrication layer supported on the insulator layer (claims 20 and 30, last two lines) in combination with the remaining features of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

This application is in condition for allowance except for the following formal matters:

The objection to claims 24-27 and 34-37 discussed on page 2.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Phan whose telephone number is (571) 272-2317. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JP May 2005

> James Phan Primary Examine